

AMENDMENTS TO THE SPECIFICATION

On page 7, please amend paragraph [0019] as follows:

[0019] Referring now to Figure 2, a gated-EKG signal 300 of a pacemaker patient with one intrinsic heartbeat 305 and two pacemaker spikes 310, as received and displayed at cardiograph 112, is depicted. Signal 300 is referred to as a QS (~~absent from~~ absence of initial positive or R wave deflection), as determined by the direction of the electrophysiological signal detected at the lead. ~~Also absent is a distinct R-wave,~~ R-wave is absent due to pacing in the right ventricle. Accordingly image acquisition gating with respect to triggering on the upstroke wave or peaks instead of a valley would result in poor synchronization for imaging. Also depicted in Figure 2 are several EKG monitor trigger points 315 (depicted as solid boxes), which are normally used for gating scanner 118. These trigger points which are depicted as solid boxes at location 315 and are currently on the upstroke of the valley because of the presence of pacemaker spikes. At location 305, where an intrinsic beat occurs, the trigger point is at the valley, which is the correct location. In an embodiment, a process corrects the “paced heart rhythms” and abnormal EKGs so that the interpretation of the trigger will be at the correct valley or peak without delay. As can be seen, EKG monitor trigger points 315 are not substantially synchronized with a particular point on the waveform of gated-EKG signal 300. To provide a corrected trigger for the irregular heartbeat depicted in Figure 2, an embodiment of the invention, as illustrated in flowchart format in Figure 3, is employed.